SQL> cl scr

SQL> SELECT RN, Ename, Sal
2 FROM
3 (
4 SELECT ROWNUM RN, Ename, Sal

5 FROM Emp 6) 7 WHERE RN = &GiveRn; Enter value for givern: 1

SQL> /
Enter value for givern: 2

SQL> /

Enter value for givern: 3

RN ENAME SAL ------ 3 CLARK 2450

SQL> ED
Wrote file afiedt.buf

1 SELECT RN, Ename, Sal

2 FROM

3 (

4 SELECT ROWNUM RN, Ename, Sal

5 FROM Emp

6 `

7* WHERE RN &GiveOper

SOL> V

Enter value for giveoper: =1

RN ENAME SAL

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......

1 KING 5000

SOL> /

Enter value for giveoper: IN(1, 5, 9)

RN	ENAME	SAL
1	KING	5000
5	MARTIN	1250
a	MYBD	1250

SQL> /

Enter value for giveoper: <= 5</pre>

RN	ENAME	SAL
1	KING	5000
2	BLAKE	2850
3	CLARK	2450
4	JONES	2975
5	MARTIN	1250

SQL> /

Enter value for giveoper: >= 10

RN	ENAME	SAL
10	FORD	3000
11	SMITH	800
12	SCOTT	3000
13	ADAMS	1100
14	MILLER	1300

SQL> /

Enter value for giveoper: BETWEEN 1 AND 5

RN	ENAME	SAL
1	KING	5000
2	BLAKE	2850
3	CLARK	2450
4	JONES	2975
5	MARTIN	1250

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SQL> /

Enter value for giveoper: BETWEEN 6 AND 10

RN	ENAME	SAL
6	ALLEN	1600
7	TURNER	1500
8	JAMES	950
9	WARD	1250
10	FORD	3000

SQL> /

Enter value for giveoper: BETWEEN 11 AND 16

RN	ENAME	SAL
11	SMITH	800
12	SCOTT	3000
13	ADAMS	1100
14	MILLER	1300

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

- 1 SELECT ROWNUM RN, Ename, Sai
- 2 FROM Emp
- 3 GROUP BY ROWNUM, Ename, Sal
- 4* HAVING ROWNUM &GiveVal

SOL> /

Enter value for giveval: = 1

RN	ENAME	SAL
1	KING	5000

SOL>

Enter value for giveval: = 2

10	RN	ENAME	SAL
		םן אער	2850

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```
SQL> /
Enter value for giveval: <= 5</pre>
      RN ENAME
                         SAL
 _____
        5 MARTIN
                       1250
        3 CLARK
                        2450
        4 JONES
                        2975
        1 KING
                        5000
        2 BLAKE
                      2850
Enter value for giveval: IN(1, 5, 9)
      RN ENAME
       5 MARTIN
        9 WARD
                         1250
                         5000
        1 KING
SQL> /
Enter value for giveval: BETWEEN 1 AND
      RN ENAME
                          SAL
        5 MARTIN
                         1250
        3 CLARK
        4 JONES
        1 KING
        2 BLAKE
                         2850
SQL> cl scr
SOL> ED
Wrote file afiedt.buf
    SELECT Ename, Sal, E.Deptno, Dname, Grade
    FROM Emp E, Dept D, Salgrade S
   WHERE Sal IN
    SELECT E2.Sal
     FROM
         SELECT ROWNUM RN, E1.*
```

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```
9
          FROM
 10
                (
 11
               SELECT Ename, Sal, Deptno, Job
 12
               FROM Emp
 13
               ORDER BY Sal DESC
 14
15
          ) E2
16 WHERE E2.RN = &Rn
17
     )
18 AND E.Deptno = D.Deptno AND
19* E.Sal BETWEEN S.Losal AND S.HiSal
Enter value for rn: 1
ENAME
               SAL
                      DEPTNO DNAME
               5000
KING
                           10 ACCOUNTING
SQL> /
Enter value for rn: 2
ENAME
                SAL
                       DEPTNO DNAME
                                                 GRADE
                              RESEARCH
               3000
                          20 RESEARCH
FORD
               3000
SOL> SET AUTOTRACE ON EXPLAIN
Enter value for rn: 2
ENAME
                                               GRADE
               3000
SCOTT
                           20 RESEARCH
                3000
FORD
                           20 RESEARCH
                                                    4
Plan hash value: 3775018254
                       _____
     Operation
                                   Name
                                                     | Rows | Bytes
 Cost (%CPU) | Time
```

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0 | SELECT STATEMENT 12 (17) | 00:00:01 | 1 | NESTED LOOPS 12 (17) | 00:00:01 | 2 | NESTED LOOPS (23) | 00:00:01 | 3 | HASH JOIN SEMI (25) | 00:00:01 | 8 4 | TABLE ACCESS FULL EMP 462 (0) | 00:00:01 | 5 | VIEW VW_NSO_1 182 (25) | 00:00:01 | 364 6 VIEW 14 (25) | 00:00:01 | 7 | COUNT 8 VIEW 182 (25) | 00:00:01 | 9 | SORT ORDER BY 546 14 4 (25) | 00:00:01 | 10 | TABLE ACCESS FULL ĚMP 14 546 (0) | 00:00:01 | TABLE ACCESS BY INDEX ROWID DEPT 11 1 22 (0) | 00:00:01 | 1 INDEX UNIQUE SCAN DEPT_PRIMARY_KEY * 12 | (0) | 00:00:01 * 13 | TABLE ACCESS FULL SALGRADE 1 | 39 $(0) \mid 00:00:01$

```
Predicate Information (identified by operation id):
```

```
access("SAL"="$nso_col_1")
6 - filter("E2"."RN"=2)
12 - access("E"."DEPTNO"="D"."DEPTNO")
```

dynamic sampling used for this statement

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```
SQL> SET AUTOTRACE OFF EXPLAIN
SQL> cl scr
SQL> SELECT RN, Ename, Sal
  2 FROM
  3
  4 SELECT ROWNUM RN, Ename, Sal
  5
    FROM Emp
  6
    )
  7 WHERE MOD(RN, 2) = 0;
       RN ENAME
                            SAL
         2 BLAKE
                            2850
         4 JONES
                            2975
         6 ALLEN
                            1600
        8 JAMES
                            950
        10 FORD
                            3000
        12 SCOTT
                            3000
        14 MILLER
                            1300
7 rows selected.
SQL> ED
Wrote file afiedt.buf
  1 SELECT RN, Ename, Sa
  2 FROM
  3
    SELECT ROWNUM RN, Ename, Sal
  5
    FROM Emp
    )
  7* WHERE MOD(RN
SQL> /
        RN ENAME
          KING
                            5000
         3 CLARK
                            2450
         5 MARTIN
                            1250
         7 TURNER
                            1500
                            1250
         9 WARD
        11 SMITH
                            800
```

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13 ADAMS 1100

7 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT ROWNUM RN, Ename, Sal
- 2 FROM Emp
- 3 GOUP BY ROWNUM, Ename, Sal
- 4* HAVING MOD(ROWNUM, 2) = 0

SQL> /

GOUP BY ROWNUM, Ename, Sal

*

ERROR at line 3:

ORA-00933: SQL command not properly ended

SQL> ED

Wrote file afiedt.buf

- 1 SELECT ROWNUM RN, Ename, Sal
- 2 FROM Emp
- 3 GROUP BY ROWNUM, Ename, Sal
- 4* HAVING MOD(ROWNUM, 2) = 0

SQL> /

RN	ENAME	*	SAL
			<u> </u>
14	MILLER		1300
8	JAMES		950
12	SCOTT		3000
4	JONES		2975
2	BLAKE		2850
6	ALLEN		1600
10	FORD	*	3000

7 rows selected

SOL> ED

Wrote file afiedt.buf

- 1 SELECT ROWNUM RN, Ename, Sal
- 2 FROM Emp

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```
3 GROUP BY ROWNUM, Ename, Sal
4* HAVING MOD(ROWNUM, 2) = 1
SQL> /
```

RN	ENAME	SAL
5	MARTIN	1250
7	TURNER	1500
11	SMITH	800
3	CLARK	2450
13	ADAMS	1100
9	WARD	1250
1	KING	5000

7 rows selected.

SQL> cl scr

SQL> SELECT ROWID, Ename, Job

2 FROM Emp

3 /

ROWID	ENAME	JOB
AAAOOQAAEAAAAH9AAA	KING .	PRESIDENT
AAAO0QAAEAAAAH9AAB	BLAKE	MANAGER
AAAOOQAAEAAAAH9AAC	CLARK	MANAGER
AAAO0QAAEAAAAH9AAD	JONES	MANAGER
AAAO0QAAEAAAAH9AAE	MARTIN	SALESMAN
AAAOOQAAEAAAAH9AAF	ALLEN	SALESMAN
AAAO0QAAEAAAAH9AAG	TURNER	SALESMAN
AAAOOQAAEAAAAH9AAH	JAMES	CLERK
AAAOOQAAEAAAAH9AAI	WARD	SALESMAN
AAAOOQAAEAAAAH9AAJ	FORD	ANALYST
AAAOOQAAEAAAAH9AAK	SMITH	CLERK
AAAOOQAAEAAAAH9AAL	SCOTT	ANALYST
AAAOOQAAEAAAAH9AAM	ADAMS	CLERK
AAAOOQAAEAAAAH9AAN	MILLER	CLERK

14 rows selected.

SQL> SELECT ROWID, Ename, Job

2 FROM Emp

3 WHERE ROWID = 'AAAOOQAAEAAAAH9AAF';

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.....

SQL> ED

Wrote file afiedt.buf

- 1 SELECT ROWID, Ename, Job
- 2 FROM Emp
- 3* WHERE ROWID < 'AAAOOQAAEAAAAH9AAF'

SQL> /

ROWID	ENAME	JOB
AAAOOQAAEAAAAH9AAA	KING	PRESIDENT
AAAOOQAAEAAAAH9AAB	BLAKE	MANAGER
AAAOOQAAEAAAAH9AAC	CLARK	MANAGER
AAAOOQAAEAAAAH9AAD	JONES	MANAGER
AAAOOQAAEAAAAH9AAE	MARTIN	SALESMAN

SQL> ED

Wrote file afiedt.buf

- 1 SELECT ROWID, Ename, Job
- 2 FROM Emp
- 3* WHERE ROWID > 'AAAOOQAAEAAAAH9AAF

SQL> /

ROWID	ENAME	JOB
AAAO0QAAEAAAAH9AAG	TURNER	SALESMAN
AAAOOQAAEAAAAH9AAH	JAMES	CLERK
AAAOOQAAEAAAAH9AAI		SALESMAN
AAAOOQAAEAAAAH9AAJ	FORD	ANALYST
AAAO0QAAEAAAAH9AAK	SMITH	CLERK
AAAOOQAAEAAAAH9AAL	SCOTT	ANALYST
AAAOOQAAFAAAAH9AAM	ADAMS	CLERK
AAAOOQAAEAAAAH9AAN	MILLER	CLERK

8 rows selected.

SOL> ED

Wrote file afiedt.buf

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```
1 SELECT ROWID, Ename, Job
  2 FROM Emp
  3* WHERE ROWID BETWEEN 'AAAOOQAAEAAAAH9AA'||'&GiveStartROWID' AND
'AAAOOQAAEAAAAH9AA'||'&GiveEndROWID'
SOL> /
Enter value for givestartrowid: A
Enter value for giveendrowid: E
                            JOB
                 ENAME
_____ ____
AAAOOQAAEAAAAH9AAA KING
                           PRESIDENT
AAAOOQAAEAAAAH9AAB BLAKE
                           MANAGER
AAAOOQAAEAAAAH9AAC CLARK
                          MANAGER
AAAOOQAAEAAAAH9AAD JONES
                          MANAGER
AAAOOQAAEAAAAH9AAE MARTIN SALESMAN
SOL> /
Enter value for givestartrowid: F
Enter value for giveendrowid: J
ROWID
                 ENAME
                            JOB
______
                            SALESMAN
AAAOOQAAEAAAAH9AAF ALLEN
AAAOOQAAEAAAAH9AAG TURNER
                          SALESMAN
AAAOOQAAEAAAAH9AAH JAMES
                           CLERK
                           SALESMAN
AAAOOQAAEAAAAH9AAI WARD
AAAOOQAAEAAAAH9AAJ FORD
                            ANALYST
SQL> /
Enter value for givestartrowid: K
Enter value for giveendrowid: P
ROWID
                 ENAME
                            JOB
AAAOOQAAEAAAAH9AAK SMITH
                           CLERK
AAAOOQAAEAAAAH9AAL SCOTT
                           ANALYST
AAAOOQAAEAAAAH9AAM ADAMS
                          CLERK
AAAOOQAAEAAAAH9AAN MILLER
                          CLERK
 QL> SELECT Ename, Sal, Job
```

2 FROM Emp

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```
3 WHERE ROWID = 'AAAMoOAAEAAAAZXAAJ';
FROM Emp
ERROR at line 2:
ORA-01410: invalid ROWID
SQL> cl scr
SOL> SELECT
  2 B.Sal,
  3 SUM(A.Sal) "Cum Sal"
  4 FROM Emp A, Emp B
  5 WHERE A.ROWID < = B.ROWID
  6 GROUP BY B.ROWID, B.Sal;
       SAL
             Cum Sal
            -----
      3000
                22825
      2975
               13275
      1300
               29025
      2850
                7850
       800
                23625
       950
                18575
      2450
                10300
      1600
                16125
      3000
                26625
      5000
                 5000
      1100
                27725
      1250
                19825
      1500
      1250
14 rows selected.
SQL> ED
Wrote file afiedt.buf
    SELECT
     B.$al,
     SUM(A.Sal) "Cum Sal"
     FROM Emp A, Emp B
```

WHERE A.ROWID < = B.ROWID
GROUP BY B.ROWID, B.Sal

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7* ORDER BY B.Sal SOL> /

SAL	Cum Sal
800	23625
950	18575
1100	27725
1250	14525
1250	19825
1300	29025
1500	17625
1600	16125
2450	10300
2850	7850
2975	13275
3000	22825
3000	26625
5000	5000

14 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 B.Sal,
- 3 SUM(A.Sal) "Cum Sal"
- 4 FROM Emp A, Emp B 5 WHERE A.ROWID = B.ROWID
- 6 GROUP BY B.ROWID, B.Sal
- 7* ORDER BY B.Sal DESC

SQL> /

	SAL	Cum	Sal
4	5000		5000
4	3000	22	2825
	3000	26	625
	2975	13	3275
A 1	2850	7	7850
A M	2450	10	300
1 8	1600	16	5125
J	1500	17	7625

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1300	29025
1250	14525
1250	19825
1100	27725
950	18575
800	23625
14 rows selec	t ed
14 LOWS SELEC	tea.
SQL> ED Wrote file af	iod+ buf
wrote life at	reat.bur

- 1 SELECT
- 2 B.Sal,
- 3 SUM(A.Sal) "Cum Sal"
- 4 FROM Emp A, Emp B
- 5 WHERE A.ROWID < = B.ROWID
- 6 GROUP BY B.ROWID, B.Sal
- 7* ORDER BY "Cum Sal"

SQL> /

SAL	Cum Sal
5000	5000
2850	7850
2450	10300
2975	13275
1250	14525
1600	16125
1500	17625
950	18575
1250	19825
3000	22825
800	23625
3000	26625
1100	27725
1300	29025

14 rows selected.

SQL> cl scr

SQL> SELECT Empno, Ename, MGR

2 FROM Emp

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- 3 START WITH Ename = 'KING'
- 4 CONNECT BY PRIOR Empno = MGR;

EMPNO	ENAME	MGR
7839	KING	
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902
7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698
7844	TURNER	7698
7900	JAMES	7698
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

SQL> UPDATE Emp

- 2 SET MGR = 7566
- 3 WHERE Ename = 'KING';
- 1 row updated.

SQL> SELECT Empno, Ename, MGR

2 FROM Emp;

	Altitude Alt	WA.
EMPNO	ENAME	MGR
7839	KING	7566
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7902	FORD	7566
7369	SMITH	7902

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7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

SQL> SELECT Empno, Ename, MGR

- 2 FROM Emp
- 3 START WITH Ename = 'KING'
- 4 CONNECT BY PRIOR Empno = MGR;

ERROR:

ORA-01436: CONNECT BY loop in user data

no rows selected

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Empno, Ename, MGR
- 2 FROM Emp

4 rows selected.

- 3 START WITH Ename = 'KING'
- 4* CONNECT BY NOCYCLE PRIOR Empho = MGR

SQL> /

EMPNO	ENAME		MGR
7839	KING		7566
7566	JONES		7839
7788	SCOTT		7566
7876	ADAMS		7788
7902	FORD \	1	7566
7369	SMITH	A	7902
7698	BLAKE	1	7839
7499	ALLEN	Ť	7698
7521	WARD		7698
7654	MARTIN		7698
7844	TURNER		7698
7900	JAMES		7698
7782	CLARK		7839
7934	MILLER		7782

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SQL> ED
Wrote file afiedt.buf

1 SELECT
2 CONNECT_BY_ISCYCLE CycleBit,
3 Empno,
4 Ename,
5 MGR
6 FROM Emp
7 START WITH Ename = 'KING'
8* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /

CYCLEBIT	EMPNO	ENAME	MGR
0	7839	KING	7566
1	7566	JONES	7839
0	7788	SCOTT	7566
0	7876	ADAMS	7788
0	7902	FORD	7566
0	7369	SMITH	7902
0	7698	BLAKE	7839
0	7499	ALLEN	7698
0	7521	WARD	7698
0	7654	MARTIN	7698
0	7844	TURNER	7698
0	7900	JAMES	7698
0	7782	CLARK	7839
0	7934	MILLER	7782

14 rows selected.

SQL> ED
Wrote file afiedt.buf

- 1 SELECT
- 2 CONNECT_BY_ISCYCLE CycleBit,
- 3 Empno,
- 4 Ename,
- MGR
- 6 FROM Emp
- 7 WHERE CONNECT_BY_ISCYCLE <> 1
- 8 START WITH Ename = 'KING'

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9* CONNECT BY NOCYCLE PRIOR Empno = MGR SQL> /

CYCLEBIT	EMPNO	ENAME	MGR
0	7839	KING	7566
0	7788	SCOTT	7566
0	7876	ADAMS	7788
0	7902	FORD	7566
0	7369	SMITH	7902
0	7698	BLAKE	7839
0	7499	ALLEN	7698
0	7521	WARD	7698
0	7654	MARTIN	7698
0	7844	TURNER	7698
0	7900	JAMES	7698
0	7782	CLARK	7839
0	7934	MILLER	7782

13 rows selected.

SQL> ROLLBACK;

Rollback complete.

SOL> cl scr

SQL> SELECT Empno, Ename, MGR

- 2 FROM Emp
- 3 START WITH Ename = 'KING'
- 4 CONNECT BY PRIOR Empho = MGR;

DMDNO	TINTA N/TI	MOD
EMPNO	ENAME	MGR
7839	KING	
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902
7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698

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7844	TURNER	7698
7900	JAMES	7698
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 CONNECT_BY_ISLEAF LeafBit,
- 3 Empno,
- 4 Ename,
- 5 MGR
- 6 FROM Emp
- 7 START WITH Ename = 'KING'
- 8* CONNECT BY PRIOR Empno = MGR

SQL> /

LEAFBIT	EMPNO	ENAME	MGR
0	7839	KING	
0	7566	JONES	7839
0	7788	SCOTT	7566
1	7876	ADAMS	7788
0	7902	FORD	7566
1	7369	SMITH	7902
0	7698	BLAKE	7839
1	7499	ALLEN	7698
1	7521	WARD	7698
1	7654	MARTIN	7698
1	7844	TURNER	7698
1	7900	JAMES	7698
0	7782	CLARK	7839
1	7934	MILLER	7782

14 rows selected

SQL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 CONNECT_BY_ISLEAF LeafBit,

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```
3 Empno,
4 Ename,
5 MGR
6 FROM Emp
7 WHERE CONNECT_BY_ISLEAF = 1
8 START WITH Ename = 'KING'
9* CONNECT BY PRIOR Empno = MGR
```

LEAFBIT	EMPNO	ENAME	MGR
1	7876	ADAMS	7788
1	7369	SMITH	7902
1	7499	ALLEN	7698
1	7521	WARD	7698
1	7654	MARTIN	7698
1	7844	TURNER	7698
1	7900	JAMES	7698
1	7934	MILLER	7782

8 rows selected.

SQL> cl scr

SQL> /

SQL> SELECT ColumnName

- 2 FROM TableName
- 3 WHERE ColumnName = Value
- 4 SET_OPERATOR
- 5 SELECT ColumnName
- 6 FROM TableName
- 7 WHERE ColumnName Value

8

SOL> cl scr

SQL> SELECT Ename

- 2 FROM Emp
- 3 WHERE Deptno = 20
- 4 UNION
- 5 SELECT Ename, Job
- 6 FROM Emp
- 7 WHERE Deptno = 30;

SELECT Ename

ERROR at line 1:

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..... ORA-01789: query block has incorrect number of result columns SOL> ED Wrote file afiedt.buf 1 SELECT Ename, Sal 2 FROM Emp 3 WHERE Deptno = 20 4 UNION 5 SELECT Ename, Job 6 FROM Emp 7* WHERE Deptno = 30 SQL> / SELECT Ename, Sal ERROR at line 1: ORA-01790: expression must have same datatype as corresponding expression SQL> cl scr SQL> SELECT Ename 2 FROM Emp 3 WHERE Deptno = 10 4 UNION 5 SELECT Ename FROM Emp WHERE Deptno = ENAME ALLEN BLAKE CLARK **JAMES** KING

MARTIN

MILLER

TURNER

WARD

rows selected.

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.....

```
SQL> ED
Wrote file afiedt.buf
    SELECT Ename
  2
   FROM Emp
  3 WHERE Deptno = 10
  4 ORDER BY Ename
  5 UNION
  6 SELECT Ename
  7 FROM Emp
  8* WHERE Deptno = 30
SOL> /
UNION
ERROR at line 5:
ORA-00933: SQL command not properly ended
SQL> ED
Wrote file afiedt.buf
  1 SELECT Ename, Job
  2 FROM Emp
  3 WHERE Deptno = 10
  4 UNION
  5 SELECT Ename, Job
  6 FROM Emp
  7 WHERE Deptno = 30
  8* ORDER BY Job
SQL> /
ENAME
           JOB
JAMES
           CLERK
MILLER
           MANAGER
BLAKE
           MANAGER
CLARK
           PRESIDENT
KING
           SALESMAN
ALLEN
MARTIN
           SALESMAN
           SALESMAN
           SALESMAN
 rows selected.
```

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```
SOL> ED
Wrote file afiedt.buf
  2
      SELECT Ename, Job
  3
    FROM Emp
    WHERE Deptno = 10
  5
     UNION
  6
      SELECT Ename, Job
  7
    FROM Emp
    WHERE Deptno = 30
  9 )
 10* ORDER BY Job
SQL> /
ENAME
           JOB
JAMES
           CLERK
           CLERK
MILLER
BLAKE
         MANAGER
CLARK
         MANAGER
KING
           PRESIDENT
ALLEN
           SALESMAN
MARTIN
           SALESMAN
           SALESMAN
TURNER
WARD
           SALESMAN
9 rows selected.
SQL> ED
Wrote file afiedt.buf
      SELECT Ename,
  1
                    Job
  2.
      FROM Emp
  3
      WHERE Deptno = 10
  4
      UNION
  5
      SELECT Dname, Loc
      FROM Dept
      WHERE Deptno = 10
      ORDER BY Dname
 ORDER BY Dname
```

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ERROR at line 8: ORA-00904: "DNAME": invalid identifier SOL> ED Wrote file afiedt.buf 2 SELECT Ename, Job 3 FROM Emp 4 WHERE Deptno = 10 5 UNION SELECT Dname, Loc 6 7 FROM Dept 8 WHERE Deptno = 10 9) 10* ORDER BY Dname SOL> / ORDER BY Dname ERROR at line 10: ORA-00904: "DNAME": invalid identifier SQL> ED Wrote file afiedt.buf 2 SELECT Ename, Jo 3 FROM Emp WHERE Deptno 5 UNION SELECT Dname, Loc 6 7 FROM Dept WHERE Deptno = 10 8 9 10* ORDER BY SQL> JOB ENAME

ACCOUNTING

CLARK

KING

NEW YORK

PRESIDENT

MANAGER

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..... MILLER CLERK SQL> cl scr SQL> SELECT Job 2 FROM Emp 3 WHERE Deptno = 10 4 UNION 5 SELECT Job 6 FROM Emp 7 WHERE Deptno = 30; JOB CLERK MANAGER PRESIDENT SALESMAN SOL> ED Wrote file afiedt.buf 1 SELECT Job 2 FROM Emp 3 WHERE Deptno = 10 4 UNION ALL 5 SELECT Job 6 FROM Emp 7* WHERE Deptno = 30 SQL> / JOB PRESIDENT MANAGER

CLERK

MANAGER

SALESMAN SALESMAN

SALESMAN

CT.FP

SALESMAN

9 rows selected.

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SOL> ED Wrote file afiedt.buf 1 SELECT Job 2 FROM Emp 3 WHERE Deptno = 10 4 INTERSECT 5 SELECT Job 6 FROM Emp 7* WHERE Deptno = 30 SQL> / JOB _____ CLERK MANAGER SOL> ED Wrote file afiedt.buf 1 SELECT Job 2 FROM Emp 3 WHERE Deptno = 10 4 MINUS 5 SELECT Job 6 FROM Emp 7* WHERE Deptno = 30 SQL> /

JOB

PRESIDENT

SQL> cl scr

SQL> SELECT Ename

- 2 FROM Emp
- 3 UNION
- 4 SELECT Dname
 - FROM Dept;

FNAME

L------

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ACCOUNTING **ADAMS** ALLEN BLAKE CLARK FORD **JAMES JONES** KING MARTIN MILLER **OPERATIONS** RESEARCH SALES SCOTT SMITH TURNER ENAME WARD 18 rows selected. SQL> cl scr SQL> SELECT Dname, Loc 2 FROM Dept 3 WHERE Deptno = &GDeptno 4 UNION 5 SELECT Ename, Job, 6 FROM Emp 7 WHERE Deptno = &GDeptno02; Enter value for gdeptno: 10 Enter value for gdeptno02: 10 SELECT Dname, Loc ERROR at line 1: ORA-01789: query block has incorrect number of result columns Whote file afiedt.buf

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(K.55)

- 1 SELECT Dname, Loc, NULL Ename, NULL Job, NULL Sal
- 2 FROM Dept
- 3 WHERE Deptno = &GDeptno01
- 4 UNION
- 5 SELECT NULL, NULL, Ename, Job, Sal
- 6 FROM Emp
- 7* WHERE Deptno = &GDeptno02

SQL> /

Enter value for gdeptno01: 10 Enter value for gdeptno02: 10

DNAME	LOC	ENAME	JOB	SAL
ACCOUNTING	NEW YORK	CLARK KING MILLER	MANAGER PRESIDENT CLERK	2450 5000 1300
			* * * * * *	

SQL> /

Enter value for gdeptno01: 30 Enter value for gdeptno02: 30

DNAME	LOC	ENAME	ĴОВ	SAL
SALES	CHICAGO	+ 6		
		ALLEN	SALESMAN	1600
	4	BLAKE	MANAGER	2850
	Y	JAMES	CLERK	950
		MARTIN	SALESMAN	1250
		TURNER	SALESMAN	1500
		WARD	SALESMAN	1250

7 rows selected.

SQL> ED
Wrote file afiedt.buf

- 1 SELECT Dname, Loc, NULL Ename, NULL Job, NULL Sal
- 2 FROM Dept
- WHERE Deptno = &GDeptno01
- 4 UNION
- SELECT NULL, NULL, Ename, Job, Sal
- FROM Emp
- 7 WHERE Deptno = &GDeptno02

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..... 9 SELECT NULL, NULL, NULL, SUM(Sal) 10 FROM Emp 11* WHERE Deptno = &GDeptno03 SQL> / Enter value for gdeptno01: 10 Enter value for gdeptno02: 10 Enter value for gdeptno03: 10 LOC ENAME JOB DNAME ACCOUNTING NEW YORK 2450 CLARK MANAGER KING PRESIDENT 5000 1300 MILLER CLERK 8750 SOL> / Enter value for gdeptno01: 20 Enter value for qdeptno02: 20 Enter value for gdeptno03: 20 DNAME LOC JOB SAL RESEARCH DALLAS CLERK 1100 ANALYST 3000 2975 MANAGER SCOTT ANALYST 3000 SMITH CLERK 800 10875 7 rows selected. SQL> SET AUTOTRACE ON EXPLAIN SQL> SELECT Dname, Loc, NULL Ename, NULL Job, NULL Sal 2 FROM Dept

3 WHERE Deptno = &GDeptno01

4 UNION

SELECT NULL, NULL, Ename, Job, Sal

FROM Emp

7 WHERE Deptno = &GDeptno02;

Enter value for gdeptno01: 10

Enter value for gdeptno02: 10

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DNAME	LOC	ENAME	JOB	SAL
ACCOUNTING	NEW YORK			
		CLARK KING MILLER	MANAGER PRESIDENT CLERK	2450 5000 1300

Execution Plan

Plan hash value: 2936292807

_				_ _							
	Id		Operation			Name	4		Rows		Bytes
	Cost		(%CPU) Time	 							
_				_		A A					
	0		SELECT STATEMENT		4		→		4		147
ĺ		6	(84) 00:00:01					-			
	1		SORT UNIQUE						4		147
ļ		6	(84) 00:00:01			Ť					
-	2		UNION-ALL		A 4						
-	_			1 + C					_		
	3		TABLE ACCESS	BY INDEX	ROWID	DEPT			1		30
		1	(0) 00:00:01	1	1	DEDE DE			-		
	* 4		INDEX UNIQUE	AdV 40V		DELL-LE	RIMARY_KEY		Τ		
- [* 5	Τ.	(0) 00:00:01	All The Party of t	1	TIME		ı	2		110
	* 5		TABLE ACCESS	F.OFT		EMP			3	ı	117
		3	(0) 00:00:01								

Predicate Information (identified by operation id):

dynamic sampling used for this statement

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access("DEPTNO"=10)

filter("DEPTNO"=10)

.....

SQL> SELECT Dname, Loc, NULL Ename, NULL Job, NULL Sal

- 2 FROM Dept
- 3 WHERE Deptno = &GDeptno01
- 4 UNION
- 5 SELECT NULL, NULL, Ename, Job, Sal
- 6 FROM Emp
- 7 WHERE Deptno = &GDeptno02
- 8 UNION
- 9 SELECT NULL, NULL, NULL, SUM(Sal)
- 10 FROM Emp
- 11 WHERE Deptno = &GDeptno03;

Enter value for gdeptno01: 30

Enter value for gdeptno02: 30

Enter value for gdeptno03: 30

DNAME	LOC	ENAME	JOB	SAL
SALES	CHICAGO			
		ALLEN	SALESMAN	1600
		BLAKE	MANAGER	2850
		JAMES -	CLERK	950
		MARTIN	SALESMAN	1250
		TURNER	SALESMAN	1500
		WARD	SALESMAN	1250
				9400

8 rows selected.

Execution Plan

Plan hash value: 1118198403

Id Operation	Name	Ro	ws :	Bytes
Cost (%CPU) Time				
0 SELECT STATEMENT 10 (90) 00:00:01	1		8	290
1 SORT UNIQUE 10 (90) 00:00:01	I		8	290

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•			• • • • • • • • • • • • • • • • • • • •		•••••		••••
ļ	2	UNION-ALL					4
	3	TABLE ACCESS BY	INDEX ROWID	DEPT		1	30
*	4	(0) 00:00:01 INDEX UNIQUE SO	CAN	DEPT_PRIMARY_KEY		1	,5
*	5	(0) 00:00:01 TABLE ACCESS FUI	LL	EMP		6	234
	6	(0) 00:00:01 SORT AGGREGATE					26
 *	7	(25) 00:00:01 TABLE ACCESS FT	ULL	EMP		6	156
 	3	(0) 00:00:01					
Dre	dicat	e Information (ide	ntified by one	eration in):	<i>*</i>		
	4 - a	ccess("DEPTNO"=30)					
		<pre>ilter("DEPTNO"=30)</pre>	•				
		ilter("DEPTNO"=30)					
Not	.e		4	₩			
			A A				
	- dyna	amic sampling used	for this sta	tement			

SQL> cl scr

SQL> SELECT Deptno, SUM(Sal

- 2 FROM Emp
- 3 GROUP BY Deptho:

DEP:	ΓNΟ	SUM	(SAL)
 			- }
	30		9400
	20		10875
4	10		8750

Execution Plan

Plan hash value: 4067220884

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- Id 0	Operation	Nam	ie :	Rows		Bytes	Cos	st (8	(CPU)	Time
- 0 s	SELECT STATEMENT			14		364		4	(25)	00:00:0
1	HASH GROUP BY			14		364		4	(25)	00:00:0
2	TABLE ACCESS FU	JLL EMP	I	14		364		3	(0)	00:00:0
ote										
 - dyna	amic sampling use	ed for t	his	state	mer	it	•			
	ECT SUM(Sal) M Emp;		4	1	2					
SUM(SAI	١)	•		•						
2902	 25	+ (
xecution	n Plan									
lan hash	n value: 20838659	14								
 Id C	peration	Nam		Rows	 	Bytes	Cos	st (%	(CPU)	Time
- 0	ELECT STATEMENT		1	1		13		3	(0)	00:00:0
	SORT AGGREGATE			1		13			1	
	TABLE ACCESS FU	лт. Гемр	, [1 /	ı	100	ı	2	(O) I	00.00.0

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Note - dynamic sampling used for this statement SQL> ED Wrote file afiedt.buf 1 SELECT Deptno, SUM(Sal), OrgSal 2 FROM Emp, 3 4 SELECT SUM(Sal) OrgSal 5 FROM Emp 6) 7* GROUP BY Deptno, OrgSal DEPTNO SUM(SAL) 10 8750 29025 20 10875 30 9400 Execution Plan Plan hash value: 3003679369

Id Operation	Name	-	Rows		Bytes		Cost (%CPU) Time
0 SELECT STATEMENT			14		546		7 (15)
00:00:01 HASH GROUP BY	ı	1	14	ı	546		7 (15)
00:00:01	I	I	14	I	540	l	/ (15)
NESTED LOOPS			14		546		6 (0)
00:00:01 3 VIEW	1	ı	1	ı	13	ı	3 (0)
00:00:01	1	'	_	1		'	- () /

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```
4 | SORT AGGREGATE |
   5 | TABLE ACCESS FULL EMP | 14 | 182 |
00:00:01
   6
        TABLE ACCESS FULL | EMP | 14 | 364 |
00:00:01
Note
  - dynamic sampling used for this statement
SQL> ED
Wrote file afiedt.buf
 1 SELECT Deptno, SUM(Sal),
 2 (
 3 SELECT SUM(Sal)
 4 FROM Emp
 5 ) OrgSal
 6 FROM Emp,
 7* GROUP BY Deptno
SQL> /
GROUP BY Deptno
ERROR at line 7:
ORA-00903: invalid table name
SQL> ED
Wrote file afiedt.buf
                SUM(Sal),
 3
   SELECT SUM(Sal)
 4
    FROM Emp
    ) OrgSal
    FROM Emp
    GROUP BY Deptno
   DEPTNO
          SUM(SAL) ORGSAL
```

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30	9400	29025		
20	10875	29025		
10	8750	29025		

Execution 1	Plan		
Plan hash	value:	2065184867	_

 I	[d	Operation	Name	Rows	Bytes	Cost	(%CPU)	Time
	0	SELECT STATEMENT		14	364	4	(25)	00:00:01
	1	SORT AGGREGATE		1	13			
	2	TABLE ACCESS FULL	EMP	14	182	3	(0)	00:00:01
	3	HASH GROUP BY		14	364	4	(25)	00:00:01
	4	TABLE ACCESS FULL	EMP	14	364	3	(0)	00:00:01

Note

- dynamic sampling used for this statement

SOL> ED

Wrote file afiedt buf

- SELECT Deptno, SUM(Sal) SalSum
- FROM Emp GROUP BY Deptno
- UNION
- SELECT NULL, SUM(Sal)
- FROM Emp

DEPTNO SALSUM

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10	8750
20	10875
30	9400
	29025

Execution Plan

Plan hash value: 768573151

Id Operation	Name	Ro	ows B	ytes Co	st (%CPU) T:	ime
				-44			
			4	A A			
0 SELECT STATEMENT			15	377	9	(67)	
00:00:01			A A				
1 SORT UNIQUE			15	377	9	(67)	
00:00:01	•					•	
2 UNION-ALL							
	• 4					•	
3 HASH GROUP BY			14	364	5	(40)	
00:00:01	+	\	,	·		•	
4 TABLE ACCESS FUL	L EMP		14	364	3	(0)	
00:00:01	A 4	'				,	
5 SORT AGGREGATE			1	13	4	(25)	
00:00:01	*	•	'	'			
6 TABLE ACCESS FUL	L EMP		14	182	3	(0)	
00:00:01	į	ı	į	1		` ' 1	

Note

- dynamic sampling used for this statement

SQL> ED

Wrote file afiedt.buf

- SELECT Job, SUM(Sal) SalSum
- 2 FROM Emp
- 3 GROUP BY Job

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.....

- 4 UNION
- 5 SELECT NULL, SUM(Sal)
- 6* FROM Emp

SOL> /

JOB	SALSUM
ANALYST	6000
CLERK	4150
MANAGER	8275
PRESIDENT	5000
SALESMAN	5600
	29025

6 rows selected.

Execution Plan

Plan hash value: 768573151

Id Operation N	Iame Ro	ws	Bytes C	Cost (%	CPU) Time
 0 SELECT STATEMENT 00:00:01		15	279	9	(67)
00:00:01 1 SORT UNIQUE 00:00:01		15	279	9	(67)
2 UNION-ALL					
3 HASH GROUP BY 00:00:01		14	266	5	(40)
4 TABLE ACCESS FULL E	MP	14	266	3	(0)
5 SORT AGGREGATE 00:00:01		1	13	4	(25)
6 TABLE ACCESS FULL E	MP	14	182	3	(0)

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Note

- dynamic sampling used for this statement

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Deptno, Job, SUM(Sal) SalSum
- 2 FROM Emp
- 3 GROUP BY Deptno, Job
- 4 UNION
- 5 SELECT Deptno, NULL, SUM(Sal)
- 6 FROM Emp
- 7* GROUP BY Deptno

SQL> /

DEPTNO	JOB	SALSUM
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000 4
10		8750
20	ANALYST	6000
20	CLERK	1900
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER 🥕	2850
30	SALESMAN	5600
30		9400

12 rows selected.

Execution Plan

Plan hash value: 961949858

,_____

Name | Rows | Bytes | Cost (%CPU) | Time

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0 SELECT STATEMENT			28	812	10	(70)
00:00:01	'	'	'			
1 SORT UNIQUE		1	28	812	10	(70)
00:00:01	ı	ı				
2 UNION-ALL		I		1		
	ı	ı	I	ı		
3 HASH GROUP BY	1	1	14	448	5	(40)
00:00:01	I	I		110		(10)
4 TABLE ACCESS FULI	г. Гъмъ	1	14	448	1	(0)
00:00:01	- 1 - 1-11-1	I		110		(0)
5 HASH GROUP BY	1	1	14	364	2	(40)
00:00:01		I	T. 1	204	5 ~	**(±0)
· ·	I DMD	1	1 /	264)	(0)
6 TABLE ACCESS FULI	L EMP	l	14	364	3	(0)
00:00:01				4.		
						

Note

- dynamic sampling used for this statement

SQL> ED

Wrote file afiedt.buf

- SELECT Deptno, Job, SUM(Sal) SalSum
- 2 FROM Emp
- 3 GROUP BY Deptno,
- 4 UNION
- 5 SELECT Deptno SUM(Sal)
- 6 FROM Emp
- 7 GROUP BY Deptno
- UNION
- SELECT NULL, 9 NULL, SUM(Sal)
- 10* FROM Emp

SQL>

DEP	TNO	JOB	SALSUM
	10	CLERK	1300
	10	MANAGER	2450
A. Company	10	PRESIDENT	5000
)	10		8750

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20	ANALYST	6000
20	CLERK	1900
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400
		29025

13 rows selected.

Execution Plan

Plan hash value: 3412076862

Id Operation	Name	Ro	ws	Bytes	Cost (%CPU) Time	
 0 SELECT STATEMENT 00:00:01			29	825	14	(79)	
1 SORT UNIQUE 00:00:01	N3		29	825	14	(79)	
2 UNION-ALL		1					
3 HASH GROUP BY			14	448	5	(40)	
00:00:01 4 TABLE ACCESS FULI	L EMP	1	14	448	3	(0)	
00:00:01 5 HASH GROUP BY			14	364	5	(40)	
00:00:01 6 TABLE ACCESS FULI	L EMP	1	14	364	3	(0)	
00:00:01 7 SORT AGGREGATE		1	1	13	4	(25)	
00:00:01 8 TABLE ACCESS FULI 00:00:01	L EMP		14	182	3	(0)	

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.....

Note - dynamic sampling used for this statement SOL> ED Wrote file afiedt.buf 1 SELECT Deptno, Job, SUM(Sal) SalSum 2 FROM Emp 3 GROUP BY Deptno, Job 4 UNION 5 SELECT Deptno, NULL, SUM(Sal) 6 FROM Emp 7 GROUP BY Deptno 8 UNION 9 SELECT NULL, Job, SUM(Sal) 10 FROM Emp 11 GROUP BY Job 12 UNION 13 SELECT NULL, NULL, SUM(Sal) 14* FROM Emp SOL> / DEPTNO JOB SALSUM 10 CLERK 1300 10 MANAGER 10 PRESIDENT 10 20 ANALYST 6000 20 CLERK 1900 20 MANAGER 2975 10875 20

950

2850

5600 9400

6000

4150

8275

5000

5600

SALSUM

30 CLERK

30 MANAGER

30 SALESMAN

CLERK

DEPTNO JOB

ANALYST

MANAGER

PRESIDENT

SALESMAN

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----- ----- 29025

18 rows selected.

Execution Plan

Dlop book --- 2471215260

Plan hash value: 3471315269

					A .	
Id Operation	Name	Ro	ws E	Bytes 🚶 🕻	ost (CPU) Time
0 SELECT STATEMENT 00:00:01			43	1091	19	(85)
1 SORT UNIQUE		1	43	1091	19	(85)
00:00:01 2 UNION-ALL	1	1	V			1
3 HASH GROUP BY			14	448	5	(40)
00:00:01 4 TABLE ACCESS FUL	L EMP	 	14	448	3	(0)
00:00:01 5 HASH GROUP BY 00:00:01			14	364	5	(40)
6 TABLE ACCESS FUL	L EMP		14	364	3	(0)
00:00:01 7 HASH GROUP BY	1		14	266	5	(40)
00:00:01 8 TABLE ACCESS FUL	L EMP		14	266	3	(0)
00:00:01 9 SORT AGGREGATE	1		1	13	4	(25)
00:00:01 10 TABLE ACCESS FUL 00:00:01	L EMP		14	182	3	(0)
					. – – – – .	

Note

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⁻ dynamic sampling used for this statement

SQL> ED
Wrote file afiedt.buf

- 1 SELECT Deptno, NULL Job, SUM(Sal) SalSum
- 2 FROM Emp
- 3 GROUP BY Deptno
- 4 UNION
- 5 SELECT NULL, Job, SUM(Sal)
- 6 FROM Emp
- 7* GROUP BY Job

SQL> /

JOB	SALSUM
	8750
	10875
	9400
ANALYST	6000
CLERK	4150
MANAGER	8275
PRESIDENT	5000
SALESMAN	5600 4
	ANALYST CLERK MANAGER PRESIDENT

8 rows selected.

Execution Plan

Plan hash value: 961949858

Id Operation	Name		Rows		Bytes		Cost	(%CPU)	Time
 0 SELECT STATEMENT 00:00:01			28		630		10	(70)	
1 SORT UNIQUE 00:00:01			28		630		10	(70)	
2 UNION-ALL								1	

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3	HASH GROUP BY		14	364	5 (40)
00:00:01	TABLE ACCESS FULL EM	P	14	364	3 (0)
00:00:01	HASH GROUP BY	· 	14	266	5 (40)
00:00:01	TABLE ACCESS FULL EM	P	14	266	3 (0)
00:00:01	'	'	'	·	

·---

Note

NOLE

- dynamic sampling used for this statement

SQL> SPOOL OFF

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